

FIG. 1A

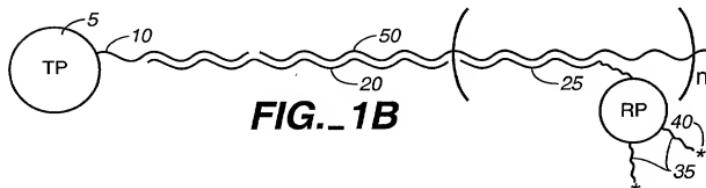


FIG. 1B

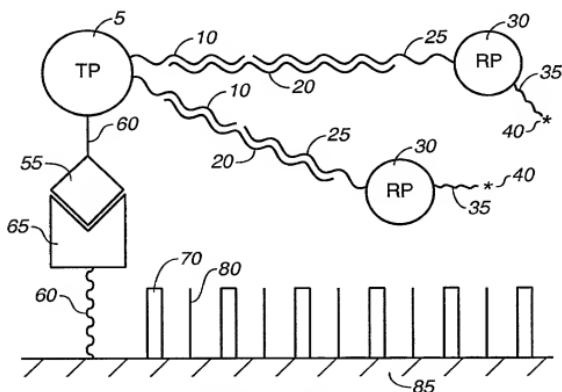


FIG. 1C

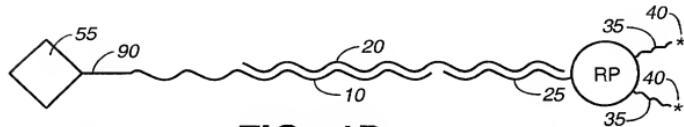
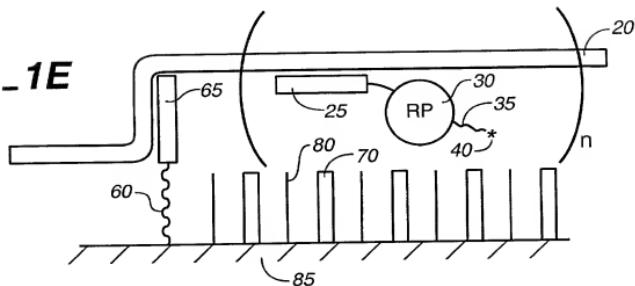


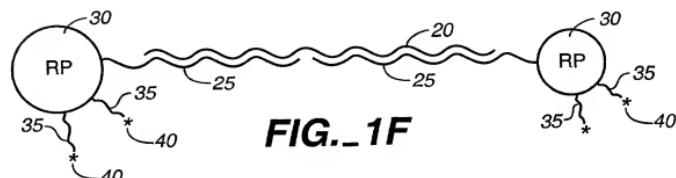
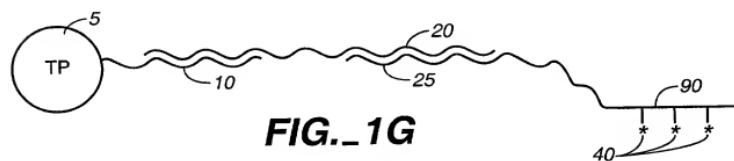
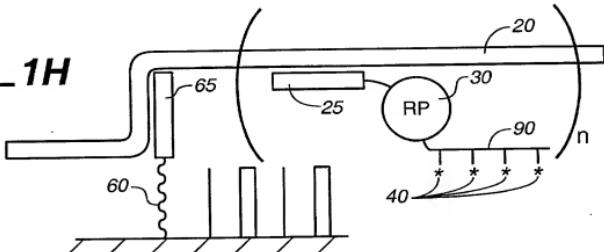
FIG. 1D

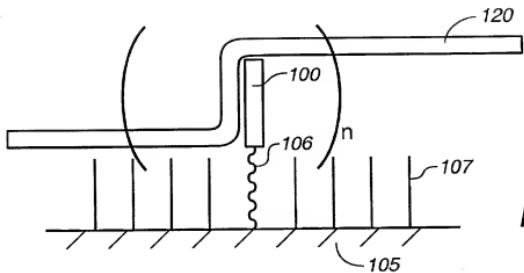
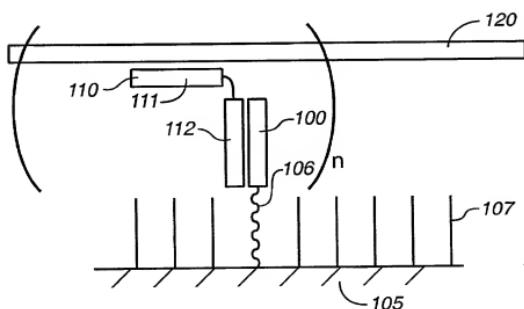
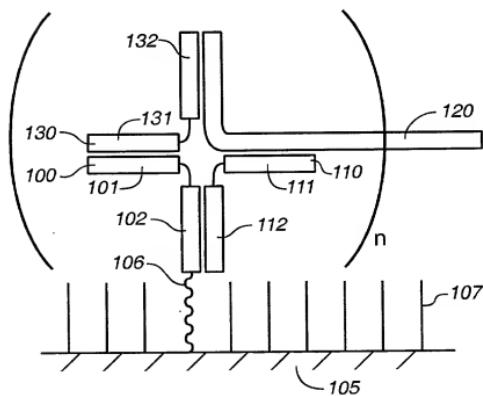
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FIG. - 1E

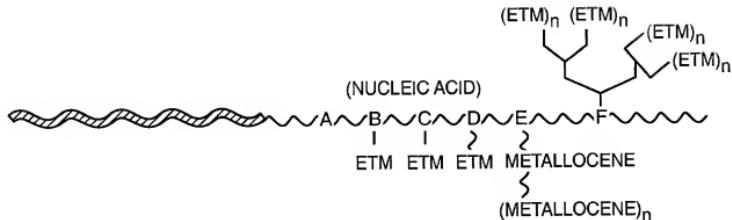
10016415.1210011

FIG. - 1F**FIG. - 1G****FIG. - 1H**

**FIG. 2A****FIG. 2B****FIG. 2C**

 = FIRST HYBRIDIZABLE PORTION OF LABEL PROBE

 = RECRUITMENT LINKER



A = NUCLEOSIDE REPLACEMENT

B = ATTACHMENT TO A BASE

C = ATTACHEMENT TO A RIBOSE

D = ATTACHMENT TO A PHOSPHATE

E = METALLOCENE POLYMER, ATTACHED
TO A RIBOSE, PHOSPHATE, OR BASE

F = DENDRIMER STRUCTURE, ATTACHED
VIA A RIBOSE, PHOSPHATE OR BASE

FIG._3A



A

B ~~~ ETM

C ~~~ ETM

D ~~~ ETM

E ~~~ (METALLOCENE)_n

F

G = ATTACHMENT VIA A "BRANCHING
STRUCTURE", THROUGH RIBOSE,
PHOSPHATE OR BASE

FIG._3B

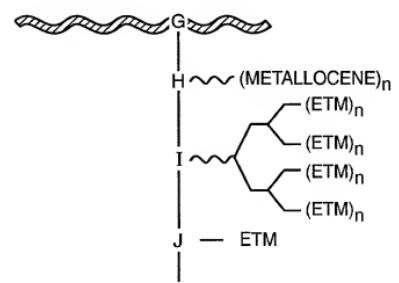
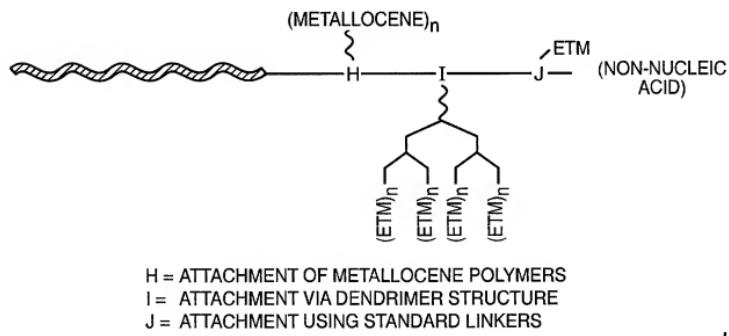
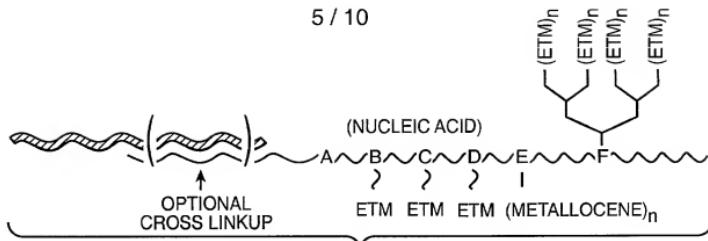


FIG. 3E

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FIG-4

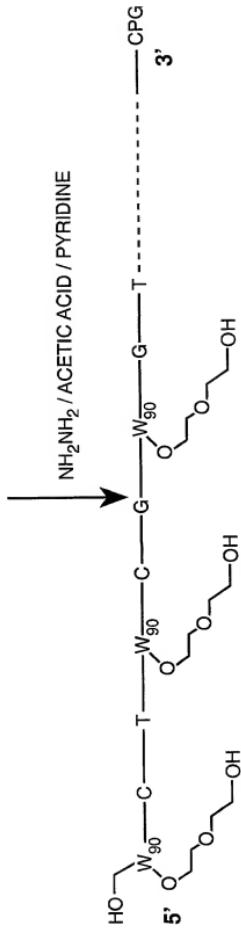
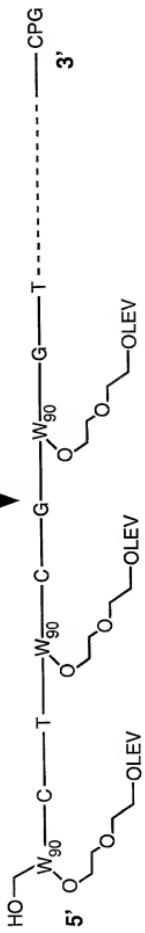
FIG. 4A

EIG 4B

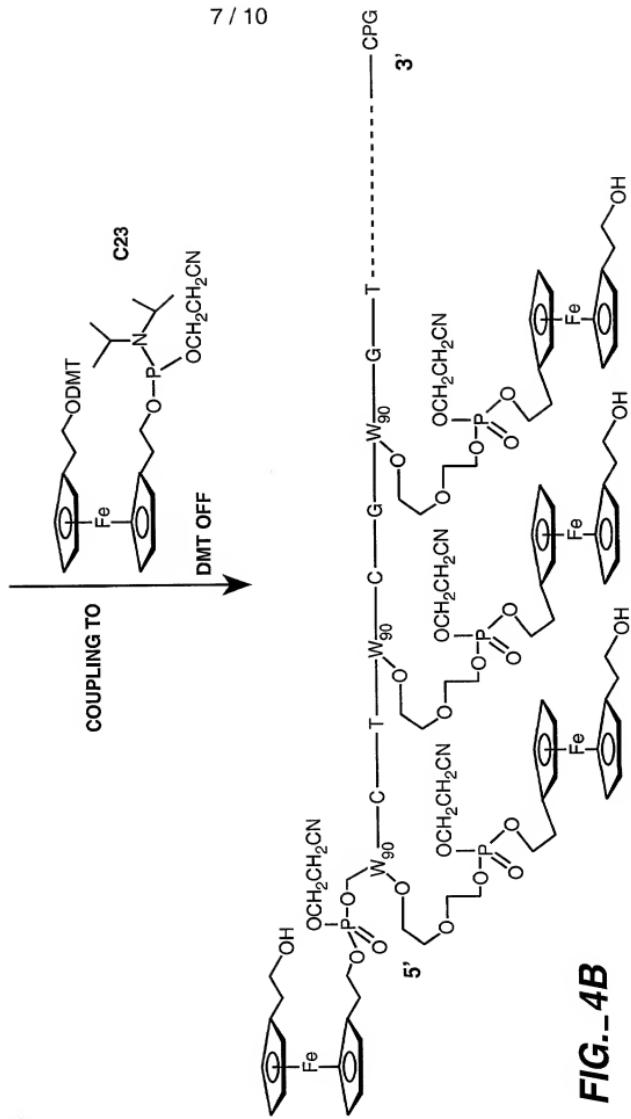
EIG AC

STANDARD D_nA SYNTHESIS USING W90

FIG.—4A



TODAY'S TUTORIAL

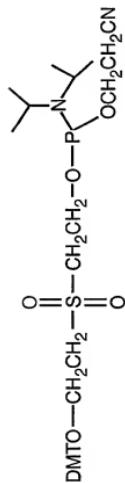


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THIS PROCESS CAN BE REPEATED UNTIL THE DESIRED # OF FERROCENE IS OBTAINED, AND THEN HYDROXY GROUPS ON FERROCENE ARE CAPPED USING THE LEFT PHOSPHORAMIDITE IN ORDER TO INCREASE THE SOLUBILITY OF FERROCENE IN WATER.



DMT OFF / CLEAVAGE AND DEPROTECTION

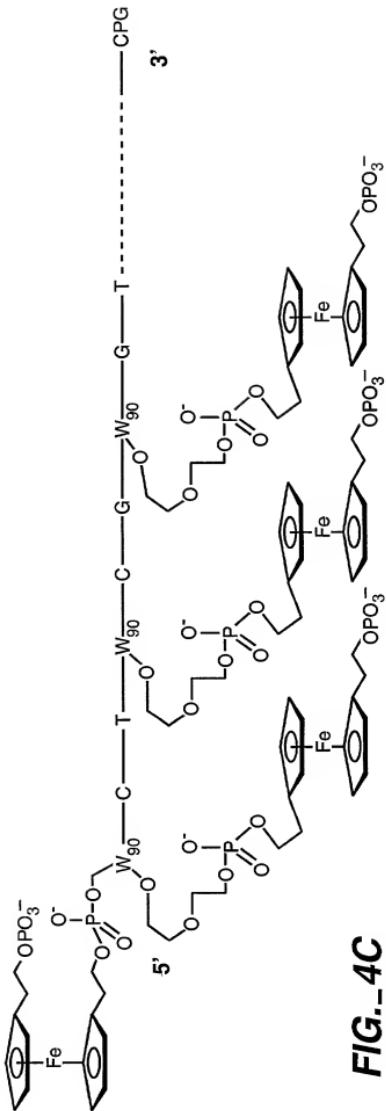


FIG.-4C

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TUTORIAL = SYNTHESIS

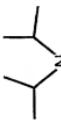
FIG.-5

STANDARD DNA SYNTHESIS



3'

SUPPORT-----A-T-G-C



COUPLING TO
DMT OFF

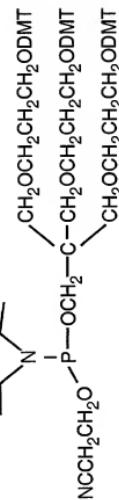
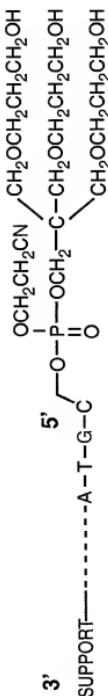


FIG.-5A

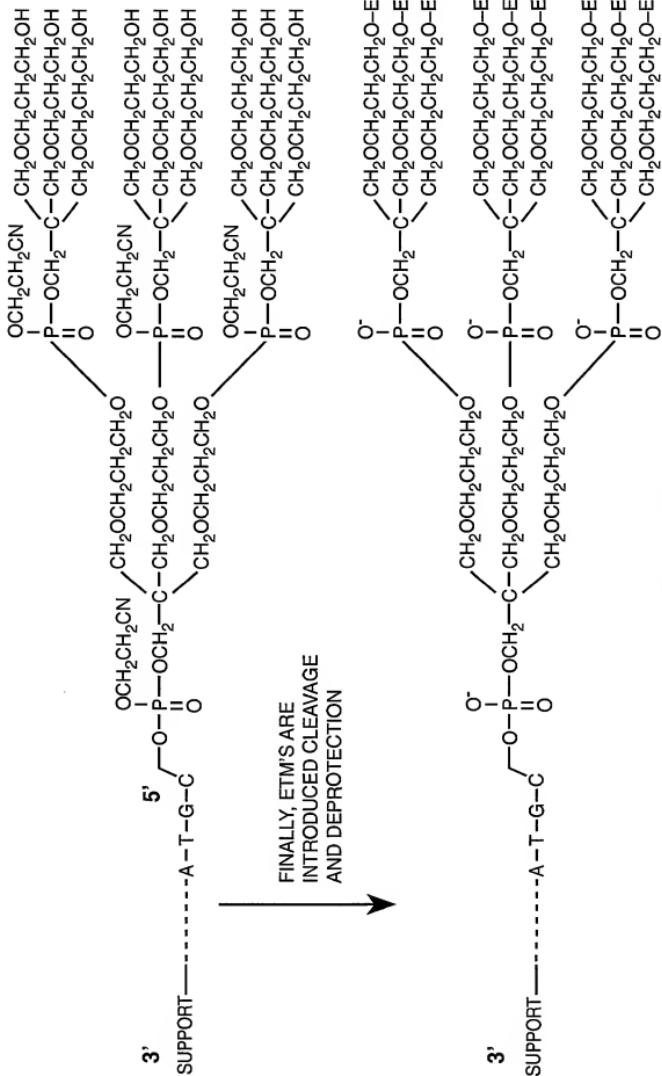
FIG.-5B



THIS COUPLING PROCESS CAN BE
REPEATED UNTIL DESIRED # OF THE
BRANCHING POINTS



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FINALLY, ETM'S ARE
INTRODUCED CLEAVAGE
AND DEPROTECTION

FIG. 5B